

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/055256 A1**

(51) International Patent Classification<sup>7</sup>: H01F 41/02,  
B21D 26/14

SOONG, Wen, Llang [AU/AU]; 13 Elijah Court, Green-  
with 5125 (AU).

(21) International Application Number:  
PCT/AU2004/001680

(74) Agent: MADDERN; Level 1, 64 Hindmarsh Square,  
Adelaide, S.A. 5000 (AU).

(22) International Filing Date: 2 December 2004 (02.12.2004)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003906659 2 December 2003 (02.12.2003) AU

(71) Applicants (for all designated States except US): ADE-  
LAIDE RESEARCH & INNOVATION PTY LTD  
[AU/AU]; Level 11, 10 Pulteney Street, Adelaide, S.A.  
5000 (AU). GLASSY METAL TECHNOLOGIES LIM-  
ITED [AU/AU]; HLB Mann Judd Stephens, 82 Fullarton  
Road, Norwood, S.A. 5067 (AU).

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

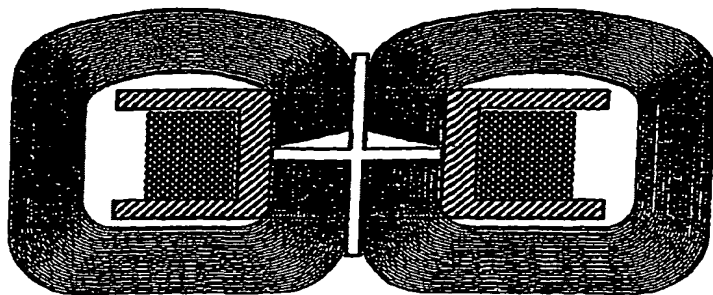
(75) Inventors/Applicants (for US only): GAYLER, JOHN  
[AU/AU]; 82 Fullarton Road, Norwood, SA 5067 (AU).  
RYBAK, Tbd [AU/AU]; 82 Fullarton Road, orwood, SA  
5067 (AU). KLOEDEN, Steven [AU/AU]; 82 Fullarton  
Road, Norwood, S.A. 5067 (AU). ERTUGRUL, Nesiml  
[AU/AU]; 22 Junction Road, Paradise S.A. 5075 (AU).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF FORMING AND TESTING THE FORMATION OF AMORPHOUS METAL OBJECTS



(57) Abstract: A method of forming  
a portion of magnetic core from a  
plurality of magnetic ribbons using a  
former having an electrically conductive  
coil located about the former has  
following steps: locating an end of  
a stack of magnetic ribbon material  
substantially within the opening of  
the coil, locating the free end of said  
stack opposite the first end within the  
opening of the coil and then applying  
electric energy to said coil so as to  
produce a force that draws the ends of  
said magnetic ribbon towards each other  
to form the core. Also is disclosed a  
method for testing for the completion

of the assembly of a magnetic core consisting of one or more magnetic ribbons comprising the steps of: measuring one or more  
electromagnetic characteristics including instantaneous value of the core current and voltage during the process of forming and  
comparing the said characteristics with a predetermined value.